### PATENT COOPERATION TREATY



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### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

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anslation Int	ERNATIONAL PRELIM		TION REI ON		
		le 36 and Rule 70)			
Applicant's or agent's file refere Y0326-PCT	FOR FURTHER	ACTION See Notific	cation of Transmittal of Internal Examination Report (Form PCT/IPEA)		
International application No.		date (day/month/year)	Priority date (day/month/year)		
PCT/JP2003/00714	9 05 June 200 n (IPC) or national classification	3 (05.06.2003)	07 June 2002 (07.06.2002		
	, 45/00, A61P 13/00, 13/02, 13		3/02		
Applicant	YAMANOUCHI PHAR	MACEUTICAL CO	., LTD.		
			ational Preliminary Examining Author		
	applicant according to Article 36		haat		
	of a total of 4 shee				
amended and are	the basis for this report and/or sh	neets containing rectifica	on, claims and/or drawings which have tions made before this Authority (see		
	n 607 of the Administrative Instru				
I nese annexes co	onsist of a total of	silects.			
3. This report contains ind	ications relating to the following	items:			
I Basis o	f the report				
II Priority			and indicated analisability		
	tablishment of opinion with regar	d to novelty, inventive st	ep and industrial applicationly		
· · · ·	IV Lack of unity of invention  Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicabil citations and explanations supporting such statement				
citation	s and explanations supporting suc	ch statement	EPO - DG 1		
\ \'\ \_	documents cited				
1 " -	defects in the international applic		1 7. 12. 2CC\$		
VIII Certain	observations on the international	і аррисацов			
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Date of submission of the dem	and	Date of completion	of this report		
09 October 2	003 (09.10.2003)	28 1	anuary 2004 (28.01.2004)		
	777 A 475	Authorized officer			
Name and mailing address of t	IC II DIVII		•		
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International application No.

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	s of the report	
With	h regard to the elements of the international application:	
X	the international application as originally filed	
n	the description:	
_	pages	, as originally filed
	pages	, filed with the demand
	pages	, filed with the letter of
	the claims:	
	pages	, as originally filed
	pages	, as amended (together with any statement under Article 19
	pages	, filed with the demand
	pages	, filed with the letter of
	the drawings:	•
ب	pages	, as originally filed
	pages	filed with the demand
		, filed with the letter of
	1	
Ш	the sequence listing part of the description:	
		, as originally filed , filed with the demand
	pages	, filed with the letter of
	pages	, ince with the letter of
	the language of a translation furnished for the purposes of the language of publication of the international application the language of the translation furnished for the purpo or 55.3).	
Wi	ith regard to any nucleotide and/or amino acid sequ eliminary examination was carried out on the basis of the sec	ence disclosed in the international application, the international quence listing:
	contained in the international application in written form	n.
	filed together with the international application in comp	uter readable form.
	furnished subsequently to this Authority in written form	L
	furnished subsequently to this Authority in computer re	
		adable form.
	international application as filed has been furnished.	ten sequence listing does not go beyond the disclosure in the
	international application as filed has been furnished.	ten sequence listing does not go beyond the disclosure in the
	international application as filed has been furnished.  The statement that the information recorded in comp	ten sequence listing does not go beyond the disclosure in the
	international application as filed has been furnished.  The statement that the information recorded in completen furnished.  The amendments have resulted in the cancellation of: the description, pages	ten sequence listing does not go beyond the disclosure in the
	international application as filed has been furnished.  The statement that the information recorded in comp been furnished.  The amendments have resulted in the cancellation of:  the description, pages the claims, Nos.	ten sequence listing does not go beyond the disclosure in the
	international application as filed has been furnished.  The statement that the information recorded in completen furnished.  The amendments have resulted in the cancellation of: the description, pages	ten sequence listing does not go beyond the disclosure in the
4. C	international application as filed has been furnished.  The statement that the information recorded in comp been furnished.  The amendments have resulted in the cancellation of:  the description, pages the claims, Nos.  the drawings, sheets/fig	ten sequence listing does not go beyond the disclosure in the outer readable form is identical to the written sequence listing has endments had not been made, since they have been considered to go
5. [ * Re in	international application as filed has been furnished.  The statement that the information recorded in completen furnished.  The amendments have resulted in the cancellation of:  the description, pages the claims, Nos. the drawings, sheets/fig  This report has been established as if (some of) the ambeyond the disclosure as filed, as indicated in the Supplement sheets which have been furnished to the receiving this report as "originally filed" and are not annexed to	ten sequence listing does not go beyond the disclosure in the outer readable form is identical to the written sequence listing has endments had not been made, since they have been considered to go
5	international application as filed has been furnished.  The statement that the information recorded in complete furnished.  The amendments have resulted in the cancellation of:  the description, pages	endments had not been made, since they have been considered to go emental Box (Rule 70.2(c)).**  In Office in response to an invitation under Article 14 are referred to to this report since they do not contain amendments (Rule 70.10)

International application No.

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m	. Non-e	establishment of opinion with regard to novelty, inventive step and industrial applicability
ı.	The quindustr	uestions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be rially applicable have not been examined in respect of:
		the entire international application.
	$\boxtimes$	claims Nos
	becaus	e:
	$\boxtimes$	the said international application, or the said claims Nos. 7, 8 relate to the following subject matter which does not require an international preliminary examination (specify):
	Tl	ne inventions of claims 7 and 8 concern treatment of the human body by therapy.
		the description, claims or drawings (indicate particular elements below) or said claims Nosare so unclear that no meaningful opinion could be formed (specify):
		,
		the claims, or said claims Nos are so inadequately supported by the description that no meaningful opinion could be formed.
	$\boxtimes$	no international search report has been established for said claims Nos
2.	A mea	ningful international preliminary examination cannot be carried out due to the failure of the nucleotide and/or amino acid nee listing to comply with the standard provided for in Annex C of the Administrative Instructions:
		the written form has not been furnished or does not comply with the standard.
		the computer readable form has not been furnished or does not comply with the standard.

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tatement			
Novelty (N)	Claims	3, 4, 6	YE.
	Claims	. 1, 2, 5	NO.
Inventive step (IS)	Claim	4	YE
	Claims	1-3, 5, 6	NO.
Industrial applicability (IA)	. Claims	1-6	YE
	Claims		NC

2. Citations and explanations

Document 1) World Journal of Urology, 2001, Vol. 19, No. 5, p. 307-311

Document 2) European Urology, 2001, Vol. 40, suppl 4, p. 12-20

Document 3) WO 96/20194 A1 (Yamanouchi Pharmaceutical Co., Ltd.) July 4, 1996

[1] Based on the descriptions in documents 1 and 2 cited in the international search report, the inventions of claims 1, 2 and 5 lack novelty and an inventive step.

Page 308 of document 1 states that adrenaline  $\alpha$ 1-receptor blockers are useful as drugs for the treatment of overactive bladder, and lines 10 to 15 on the right column of the same page state that tamsulosin controls symptoms caused by irritation of the bladder such as frequent urination. Thus, the inventions of claims 1, 2, and 5 are one and the same as the invention described in document 1. Furthermore, because the applicant also acknowledges on page 3, lines 10 to 12 of the Specification of this application that overactive bladder is a urinary collection disorder, and page 20 of document 2 states that tamsulosin is effective in the treatment of urinary collection disorders, the inventions of claims 1, 2, and 5 are one and the same as the invention described in document 2.

[2] Based on the descriptions in documents 1 and 2 cited in the international search report, the inventions of claims 3 and 6 lack an inventive step.

See item [1] above.

Because document 1 states that muscarinic receptor antagonists have been used in the past as drugs for the treatment of overactive bladder, persons skilled in the art can easily conceive of using tamsulosin in combination with a muscarinic receptor antagonist. Likewise, because Figure 6a of document 2 states that muscarinic receptor antagonists are effective in the treatment of urinary collection disorders, persons skilled in the art can easily conceive of using tamsulosin in combination with a muscarinic receptor antagonist as a drug for the treatment of overactive bladder, which is a urinary collection disorder.

[3] None of the documents cited in the international search report or documents considered relevant to the invention describes the invention of claim 4, and therefore this invention has novelty and involves an inventive step.

Documents 1 and 2 state that tamsulosin is effective in the treatment of overactive bladder, and document 3 states that 3-quinucli nyl 1-phenyl-1,2,3,4-tetrahydro-2-isoquinolinecarboxylate or salt thereof is effective in the treatment of frequent urination, etc. However, documents 1-3 neither describe nor suggest that when tamsulosin and the above quinuclidine compound are used in combination, they will demonstrate a synergistic effect in controlling overactive bladder.